

1/16

SEQUENCE LISTING

<110> Kaneka Corporation,

Nagoya Industrial Science Research Institute (Chubu  
 Technology Licensing Office)

<120> Method of expressing gene in transgenic birds using  
 retrovirus vector and transgenic birds thus obtained

<130> T753/TRANS-1

<150> JP P2002-236089

<151> 2002-08-13

<160> 37

<210> 1

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer used for PCR  
 amplification of the Miw promoter 5' region fragment

<400> 1

cggctctagag gaattcagtg gttcg 25

<210> 2

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the Miw promoter 5' region fragment

<400> 2

ccaggatccg acgttgtaaa acgacg 26

<210> 3

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Hind III recognition site at the 5' terminal used for PCR amplification of the Miw promoter 3' region fragment

<400> 3

ccaaagcttg ccgcagccat tgcctttt 28

<210> 4

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Bln I recognition site at the 5' terminal used for PCR amplification of the Miw promoter 3' region fragment

<400> 4

atacctaggg gctggctgcg gaggaac 27

<210> 5

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Nhe I recognition site at the 5' terminal used for PCR amplification of the chicken  $\beta$ -actin promoter fragment lacking the intron

<400> 5

tttagctagc tgcagctcag tgcattgcac 29

<210> 6

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Xba I recognition site at the 5' terminal used for PCR amplification of the chicken  $\beta$ -actin promoter fragment lacking the intron

<400> 6

ataatctaga aacgcagcga ctcccgc 27

<210> 7

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Xho I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody light chain  $\kappa$  constant region

<400> 7

atcctcgaga ggccaaagta cagtg 25

<210> 8

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody light chain  $\kappa$  constant region

<400> 8

cccgatccc taacactctc ccctgttgaa gct 33

<210> 9

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Not I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody light chain variable region

<400> 9

agcggccgct acaggtgtcc actccgacat cgtgatgacc cagtctcc 48

<210> 10

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Xho I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody light chain variable region

<400> 10

cctctcgagg atagaagtta ttcagcaggc acac 34

<210> 11

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Xho I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain  $\mu$  constant region

<400> 11

acctcgagcg tggccgttgg ctgcctcgca ca 32

<210> 12

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Hind III recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain  $\mu$  constant region

<400> 12

actaagctta cggtgtacag ggtgggttta cc 32

<210> 13

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Not I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain variable region

<400> 13

agcggccgct acaggtgtcc actccgaggt gcagctggtg gagtctgg 48

<210> 14

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Xho I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain variable region

<400> 14

cacgctcgag gtatccgacg gggaattctc acagga 36

<210> 15

<211> 49

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Hind III recognition site at the 5' terminal used for DNA polymerase reaction to construct the coding fragment of the human epidermal growth factor receptor transmembrane region

<400> 15

cccaagcttg atctccactg ggatggtggg ggccctcctc ttgctgctg 49

<210> 16

<211> 78

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the BamH I recognition site at the 5' terminal used for DNA polymerase reaction to construct the coding fragment of the human epidermal growth factor receptor transmembrane region

<400> 16

cccggatcct cagtcaaggc gccttcgcat gaagaggccg atccccaggg  
ccaccaccag 60  
cagcaagagg agggcccc 78

<210> 17

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide used for site-directed  
mutagenesis to generate the Nar I recognition site at the 3'  
terminal of the coding fragment of the human antibody light  
chain variable region

<400> 17

tgaagacaga tggcgccgcc acagttcggt t 31

<210> 18

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide used for site-directed  
mutagenesis to generate the BamH I recognition site at the 3'  
terminal of the coding fragment of the human antibody heavy  
chain variable region

<400> 18

tggggcggat gcggatcctg aggagacggt 30



<210> 19

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Not I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the mouse antibody light chain variable region

<400> 19

cgcggccgcc tcagggaaag tttgaagatg 30

<210> 20

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Nar I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the mouse antibody light chain variable region

<400> 20

cggcgccgcc acagtcggtt ttatttccag cttggt 36

<210> 21

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Not I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the mouse antibody heavy chain variable region

<400> 21

cgcgggccgcg aacacggamc cctcaccatg 30

<210> 22

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the mouse antibody heavy chain variable region

<400> 22

cggatcctgc agagacagtg accagagt 28

<210> 23

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer used for PCR amplification of the coding fragment of the human antibody heavy chain  $\gamma 1$  constant region

<400> 23

caagcttcaa gggcccat 18

<210> 24

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer used for PCR amplification of the coding fragment of the human antibody heavy chain  $\gamma$ 1 constant region

<400> 24

atttaccgag agacaggga 19

<210> 25

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain  $\gamma$ 1 constant region

<400> 25

ataggatccg ctagcttcaa gggcccatcg 30

<210> 26

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Hind III recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain  $\gamma$ 1 constant or Fc region

<400> 26

agcaagcttt catttaccgc gagacaggga 30

<210> 27

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Sal I recognition site at the 5' terminal used for PCR amplification of the chicken  $\beta$ -actin promoter fragment lacking the intron

<400> 27

acgcgtcgac gtgcatgcac gctcattg 28

<210> 28

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Sal

I recognition site at the 5' terminal used for PCR amplification of the chicken  $\beta$ -actin promoter fragment lacking the intron

<400> 28

acgcgtcgac aacgcagcga ctccccg 26

<210> 29

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Sal I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the antibody  $\kappa$  light chain

<400> 29

aatgtcgaca tgggtgtccac ttctcagctc 30

<210> 30

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Sal I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the antibody  $\kappa$  light chain

<400> 30

ttcgtcgacc taacactctc ccctgttgaa 30

<210> 31

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Sal I recognition site at the 5' terminal used for PCR amplification of the IRES fragment

<400> 31

acgcgtcgac cgcccctctc cctccccc 28

<210> 32

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the Xho I recognition site at the 5' terminal used for PCR amplification of the IRES fragment

<400> 32

ccgctcgaga ttatcatcgt gtttttcaaa ggaaaaccac gtc 43

<210> 33

<211> 61

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide acting as a sense chain in

annealing to construct the coding fragment of the chicken lysozyme secretion signal

<400> 33

ctagaccatg aggtctttgc taatcttggt gctttgcttc ctgcccctgg  
ctgctctggg 60  
g 61

<210> 34

<211> 57

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide acting as an anti-sense chain in annealing to construct the coding fragment of the chicken lysozyme secretion signal

<400> 34

ccccagagca gccaggggca ggaagcaaag caccaagatt agcaaagacc  
tcatggt 57

<210> 35

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the Dra I recognition site at the 5' terminal used for PCR amplification of the scFv coding fragment

<400> 35

gcgttttaaag tgacgttgga cgtccg 26

<210> 36

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 3'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the scFv coding fragment

<400> 36

attaggatcc gcgcttaagg acggtcagg 29

<210> 37

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed sequence of a 5'-primer incorporating the BamH I recognition site at the 5' terminal used for PCR amplification of the coding fragment of the human antibody heavy chain  $\gamma$ 1 Fc region

<400> 37

attaggatcc gagcccaaatt cttgtgacaa aactc 35